

COASTAL IMPACT ASSISTANCE PROGRAM

Jefferson Parish Project Nominee Fact Sheet

Project Title: Jean Lafitte Shoreline Protection and Marsh Creation Project

Entity/Individual nominating the project: Jefferson Parish, Louisiana

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Total CIAP Funds Requested: \$ 10,000,000

Parish CIAP Funds Proposed: \$ 0

State CIAP Funds Requested: \$ 10,000,000

Infrastructure Funds Proposed: N/A

Description and Location of the Project: The project site is located along the southeast portion of Lake Salvador at the Barataria Preserve of Jean Lafitte National Historical Park and Preserve and lands south of Bayou Villars in Jefferson Parish, Louisiana.

The goals of this project are to protect existing shoreline and re-create marsh. Rock revetment will be used to protect the shoreline in the southeast portion of Lake Salvador and immediately south of Bayou Villars near the Gulf Intracoastal Waterway (GIWW). Rocks will be placed offshore and backfilled with dredged material in order to mimic the historic lake rim. Dredged material will be used to fill a 55-acre area of open water between Lake Salvador and the Bayou Segnette Waterway. In areas of degraded marsh, a thin layer of dredged material will be sprayed over the area to add nourishment.

Approximately, 21,000 linear feet of shoreline (15,000 on the Barataria Preserve and 6,000 on private land) will be armored with rock, 130 acres of eroded marsh will be created using dredged material, and marsh nourishment will be enrich to 135 acres of degraded marsh. Dredged material will be obtained from a borrow source located near the project area in Lake Salvador.

Project Type: Conservation, restoration and protection of coastal area, including wetland

Project Justification: Within the past 50 years, the project area has undergone a remarkable transformation including the loss of more than 620 acres of wetlands. Since the late 1950's, annual shoreline erosion rates at the Barataria Preserve averaged 21 linear feet with a high exceeding 90 feet. Astonishing shoreline retreat of approximately 2,400 feet has occurred at the southern end of the Pipeline Canal since 1958. Shoreline retreat and wetland loss were accelerated by the powerful winds and storm surge caused by Hurricanes Katrina and Rita. Within the project area, these storms caused 100 feet of shoreline retreat and the interior marsh was compacted or torn apart creating open water ponds. The high loss of wetlands that has occurred is also responsible for flooding of the neighboring communities of Crown Point, Jean Lafitte, and Barataria. Shoreline stabilization and marsh restoration will ensure protection of natural resources and infrastructure, including two federally maintained navigation channels: Bayou Segnette Waterway and the GIWW.

Direct benefits include stabilizing 21,000 linear feet of shoreline, creating 130 acres of marsh, and providing nourishment to 135 acres. Approximately 350-400 acres will be directly impacted and over 1,000 acres will be indirectly affected. This project will protect a large portion of the southeastern rim of Lake Salvador and is synergistic with existing shoreline protection projects that have been constructed on the Barataria Preserve. Completion of this project will complete armament of the southeastern portion of Lake Salvador.

One key feature of this project is the storm surge protection for local communities and infrastructure. The project site is located in a critical area 15 miles south of New Orleans that provides the last line of defense against storm surge coming from Lake Salvador and the Barataria Bay. In addition, oil and gas infrastructure in the areas will be protected from destructive storm surges.

The project is consistent with the following coastal restoration initiatives:

COAST 2050: TOWARD A SUSTAINABLE COASTAL LOUISIANA:

Coastwide Strategy:

- Dedicated dredging for wetland creation
- Stabilization of major navigation channels
- Maintenance of bay and lake shoreline integrity

Regional Strategy:

- Restore and Sustain Marshes
- Protect Bay and Lake Shorelines

COASTAL IMPACT ASSISTANCE PROGRAM (CIAP):

- Protect Critical infrastructure

Project Cost Share: State = 0 %
 Parish = 0 %